

1972

Herpetofauna of Sylamore Ranger District, Ozark National Forest, Arkansas: Preliminary Report

John P. Schuier
University of Memphis

James W. Dickson
University of Memphis

Michael J. Harvey
University of Memphis

Follow this and additional works at: <http://scholarworks.uark.edu/jaas>

 Part of the [Terrestrial and Aquatic Ecology Commons](#), and the [Zoology Commons](#)

Recommended Citation

Schuier, John P.; Dickson, James W.; and Harvey, Michael J. (1972) "Herpetofauna of Sylamore Ranger District, Ozark National Forest, Arkansas: Preliminary Report," *Journal of the Arkansas Academy of Science*: Vol. 26 , Article 16.
Available at: <http://scholarworks.uark.edu/jaas/vol26/iss1/16>

This article is available for use under the Creative Commons license: Attribution-NoDerivatives 4.0 International (CC BY-ND 4.0). Users are able to read, download, copy, print, distribute, search, link to the full texts of these articles, or use them for any other lawful purpose, without asking prior permission from the publisher or the author.

This Article is brought to you for free and open access by ScholarWorks@UARK. It has been accepted for inclusion in Journal of the Arkansas Academy of Science by an authorized editor of ScholarWorks@UARK. For more information, please contact scholar@uark.edu, ccmiddle@uark.edu.

Herpetofauna of Sylamore Ranger District Ozark National Forest, Arkansas: Preliminary Report

JOHN P. SCHUIER, JAMES W. DICKSON, and MICHAEL J. HARVEY

Department of Biology, Memphis State University, Memphis, Tennessee 38152

ABSTRACT

A survey of the amphibians and reptiles of the Sylamore Ranger District, Ozark National Forest, Arkansas, was conducted from May 1969 through May 1972. The district is composed of 170,000 acres and includes parts of Stone, Baxter, Marion, and Searcy Counties. A total of 533 specimens was collected during the study. An additional 72 specimens in the collections of Memphis State University and Arkansas State University were examined. Forty-nine species were recorded from the study area. These consisted of 8 salamanders, 12 frogs and toads, 4 turtles, 6 lizards, and 19 snakes. Two species collected during the study, *Scaphiopus holbrooki* and *Rana sylvatica*, were not previously indicated by published range maps and range descriptions as occurring in north-central Arkansas.

INTRODUCTION

The purpose of this study was to determine the species of amphibians and reptiles present in the Sylamore Ranger District of the Ozark National Forest (Figs. 1, 2). The district is in north-central Arkansas approximately 30 mi south of the Arkansas-Missouri state line. The area consists of 170,000 acres of mountainous terrain, 80% of which is forested. The major part of the district includes northern Stone County and most of Baxter County south of the White River. The remaining part includes northeastern Searcy County east of Big Creek and southeastern Marion County east of the Buffalo River. The White River bounds the district on the north and east. The Buffalo River and Big Creek form the western boundary.

The district is in the southern part of the Salem Plateau and the northern part of the Springfield Plateau. It is in the area of a 60-mi-wide limestone belt that extends across three-fourths of northern Arkansas. The area is in the mature stage of the geomorphic cycle of erosion. Ridges are narrow and rounded. Rocks of the region are primarily limestone, sandstone, and shale in horizontal beds. Caves are numerous in the district. The area is cut deeply and intricately by many spring-fed streams, most of which are intermittent. The major stream within the district is North Sylamore Creek which flows into the White River. Elevation ranges from 320 ft on the White River to 1,250 ft in the southwestern part of the district.

Through normal ecological succession, the predominating deciduous forest has reached the oak-hickory climax. Thirty-six percent of the area, however, is in shortleaf pine.

The mean annual precipitation is approximately 46 in. Precipitation during the growing season, April to September, averages 23.8 in. Temperatures range from -2 to 105 F in an average year. The mean annual temperature is 58 F. The prevailing winds are out of the southwest and average 5 mph.

MATERIALS AND METHODS

A few preliminary collecting trips were conducted in May 1969. Daily collections were begun 8 June 1969 and continued through 15 August 1969. Subsequent weekend trips were made during the following 33 months. The number of trips varied



Figure 1. Map of Arkansas indicating location of Sylamore Ranger District, Ozark National Forest, and general physiographic regions which appear to influence distribution of amphibians and reptiles in the state (modified from Dowling, 1957).

seasonally, the more concentrated effort being made during the spring seasons.

Collection sites were selected systematically to sample the various habitats of the district, with emphasis on areas adjoining recreational facilities. Although diverse habitats were sampled, intense investigation of more productive areas included repeated trips to these areas with concentrated day and night collecting.

Standard techniques for collecting, preserving, and storing specimens were employed. All specimens collected were placed in the Memphis State University Museum of Zoology. Specimens from the study area in the herpetological collections of Arkansas State University and Memphis State University

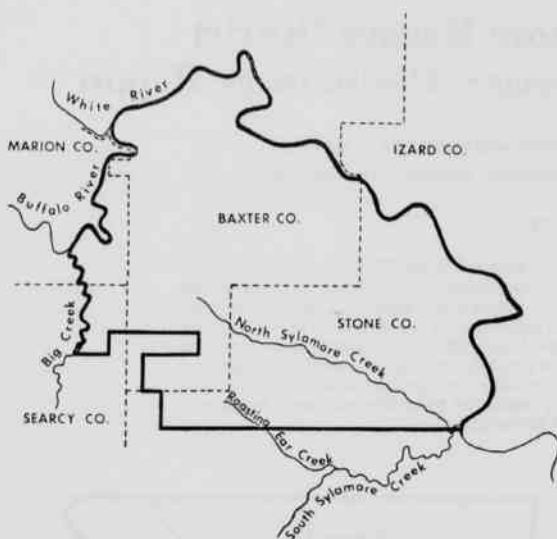


Figure 2. Map of Sylamore Ranger District, Ozark National Forest, Arkansas, indicating boundary and county line distinctions.

were examined and the results were included in the species accounts.

Questionnaires sent to 37 other colleges and universities and five museums resulted in no additional records of specimens from the study area.

No published records of herpetofauna from the district were found. Relatively few records concerning the distribution of amphibians and reptiles of the southern highlands of the Ozark Mountains were available. Stone (1904) and Hurter and Strecker (1909) published lists of amphibians and reptiles found in Arkansas but provided no records of herptiles from the counties within or adjacent to the Sylamore Ranger District. Taylor (1935) cited the presence of *Typhlotriton spelaeus* in Stone County, Arkansas, a part of which is in the district. Black and Dellinger (1938) and Dellinger and Black (1938) wrote the first general papers on the distribution of amphibians and reptiles in Arkansas, but neither paper gave data on species from the north-central part of the state. Dowling (1956) correlated the zoogeographic distributions of many species of salamanders on the Ozark Plateau with those of some of the endemic forms of the Interior Highlands. The latter included *Eurycea multiplicata multiplicata* and *Typhlotriton spelaeus*, both of which are present in the study area. Dowling (1957) reviewed the ranges, relationships, and numerous changes of nomenclature of Arkansas amphibians and reptiles. No specific records from the study area were cited.

RESULTS AND DISCUSSION

A total of 533 specimens was collected during the study. An additional 72 specimens from the study area in the collections of Memphis State University (MSUMZ) and Arkansas State University (ASU) were examined. Forty-nine species were recorded from the district. These consisted of 8 salamanders,

12 frogs and toads, 4 turtles, 6 lizards, and 19 snakes.

Two species collected during this study, *Scaphiopus holbrooki* (Harlan) and *Rana sylvatica* LeConte, had not been indicated previously by published range maps and range descriptions as occurring in north-central Arkansas (Schwardt, 1938; Bishop, 1943; Smith, 1946; Wright and Wright, 1949, 1957; Carr, 1952; Conant, 1958; Klauber, 1956; Dowling, 1957; Stebbins, 1966).

Several (26) additional species possibly are present in the Sylamore Ranger District, as indicated by these range maps and published range descriptions.

SPECIMENS EXAMINED

The following scientific names, through subspecies, are according to Schmidt (1953) except for recent revisions in nomenclature according to the Herpetological Information Search Systems of the American Museum of Natural History (1970). Common names were adopted from Conant (1956).

Ambystoma maculatum (Shaw), Spotted Salamander - **Stone Co.:** Tarwater Spring (T16N R11W S23), 1.

Ambystoma tigrinum tigrinum (Green), Eastern Tiger Salamander - **Stone Co.:** 2 mi S Calico Rock (T17N R11W S28), 1.

Plethodon dorsalis augusticlavus Grobman, Ozark Red-Backed Salamander.-**Baxter Co.:** Farris Spring (T17N R13W S2), 1; sinkhole, Culp (T17N R12W S14), 1; hillside, Push Mtn. (T17N R13W S28), 1. **Stone Co.:** Mill Creek below dam, Blanchard Springs (T15N R11W S5), 1; Tarwater Spring (T16N R11W S23), 1; Partee Spring (T16N R11W S26), 1; Old Chimney, 2 mi N Fifty Six (T16N R12W S25), MSUMZ A-1586, 3.

Plethodon glutinosus glutinosus (Green), Slimy Salamander - **Baxter Co.:** Tassel Spring (T17N R13W S33), 1; sinkhole, Culp (T17N R12W S14), 1. **Stone Co.:** N Sylamore Creek, 1 mi E Blanchard Springs (T15N R11W S5), 5; Roasting Ear Creek near Clark Spring (T15N R12W S7), 1; Mill Creek below Clark Spring (T15N R12W S8), 1; Mud Spring, 3 mi SE Green Mtn. Tower (T16N R11W S20), 6; Partee Spring (T16N R11W S26), 1; spring, 3 mi E Cole Fork Rd. at Forest Rt. 1108-1 (T16N R12W S8), 2; N Sylamore Creek at Barkshed (T16N R12W S15), 2; Sandstone Creek, 1 mi NE Gunner Pool (T16N R12W S25), 5; Old Chimney, 2 mi N Fifty Six (T16N R12W S25), 2; Gunner Pool (T16N R12W S25), MSUMZ A-1011, A-1078, 2; Gunner Creek, 1 mi W Gunner Pool (T16N R12W S26), 6; 4 mi S Calico Rock (T17N R11W S28), 2.

Typhlotriton spelaeus Stejneger, Grotto Salamander - **Stone Co.:** S Prong Roasting Ear Creek at Forest Rt. 1106 (T15N R11W S2), 1; Slick Rock Hollow Cave, 1 mi N Sylamore Exp. Station (T16N R11W S17), 2; Livingston Creek at Forest Rt. 1139 (T16N R11W S21), 2; spring box, Gunner Pool (T16N R12W S25), MSUMZ A-981, 4; Gunner Cave, 2 mi W Gunner Pool (T16N R12W S27), 1.

Eurycea lucifuga Rafinesque, Cave Salamander - **Stone Co.:** Mill Creek below dam, Blanchard Springs (T15N R11W S4), 1; natural entrance Blanchard Springs Caverns (T15N R11W S5), ASU-55, 2; Roasting Ear Creek near Clark Spring (T15N R12W S7), 1; Mud Spring, 3 mi SE Forest Rt. 1113 at 1102 (T16N R11W S20), 4; Hidden Spring, ½ mi N Sylamore Exp. Station (T16N R11W S20), 1; Tarwater Spring (T16N R11W S23), 1; Livingston Creek at Ark. Hwy. 5 (T16N R11W S26), 2; spring box, Gunner Pool (T16N R12W S25), 2; 1 mi W Gunner Pool (T16N R12W S26), 1; Gunner Cave, 2 mi W Gunner Pool (T16N R12W S27), 5; Branscum Cave, 3 mi SE Culp (T17N R11W S19), 1.

Eurycea longicauda melanopleura (Cope), Dark sided Salamander - **Baxter Co.:** spring, Cataract Creek at Forest Rt. 1105 (T17N R12W S23), 1; Farris Spring (T17N R13W S2), 1. **Marion Co.:** Middle Creek, ¼ mi from Buffalo River (T17N R14W S25), 1. **Searcy Co.:** spring, Spring Creek at Forest Rt. 1111 (T16N R14W S11), 5. **Stone Co.:** Wolf Pen Hollow, 2 mi E Blanchard Springs (T15N R11W S3), 1; Mill Creek below dam, Blanchard Springs (T15N R11W S4), ASU-60, ASU-737, ASU-747, 5; Roasting Ear Creek near Clark Spring (T15N R12W S8), 9; Clark Spring (T15N R12W S8), 4; spring, Ramsey Rd. at Forest Rt. 1106 (T15N R13W S2), 5; S Prong Roasting Ear Creek at Forest Rt. 1106 (T15N R13W S2), 4; Roasting Spring (T16N R11W S4), 4; Big Spring, adjacent to Sylamore Exp. Station (T16N R11W S16), 6; Hidden Spring, ½ mi N Sylamore Exp. Station (T16N R11W S20), 1; spring, Livingston Creek at Forest Rt. 1139 (T16N R11W S21), 2; Tarwater Spring (T16N R11W S23), MSUMZ A-1592, 2; Partee Spring (T16N R11W S26), 9; Livingston Creek at Ark. Hwy. 5 (T16N R11W S35), 2; spring, ½ mi N Forest Rt. 1101 at 1102 (T16N R12W S1), 1; spring, 3 mi E Cole Fork Rd. at Forest Rt. 1108-1 (T16N R12W S8), 3; spring near Barkshed (T16N R12W S16), 2; N Sylamore Creek, ½ mi SE Gunner Pool (T16N R12W S25), 1; 1 mi W Gunner Pool (T16N R12W S26), 2; Branscum Cave, 3 mi SE Culp (T17N R11W S19), 3; spring, 3 mi S Calico Rock (T17N R11W S28), 2.

Eurycea multiplicata multiplicata (Cope), Many-Ribbed Salamander - **Baxter Co.:** spring, Cataract Creek at Forest Rt. 1105 (T17N R12W S13), 9; Farris Spring (T17N R13W S2), 7; spring, Push Mtn. (T17N R13W S28), 1; Tassel Spring (T17N R13W S33), 4; Lone Rock Spring (T18N R13W S22), 1; Martin Spring (T18N R13W S24), 1; Cantrill Spring, Advance (T18N R13W S32), 4. **Searcy Co.:** spring, Spring Creek at Forest Rt. 1111 (T16N R14W S11), 2. **Stone Co.:** S Prong Roasting Ear Creek at Forest Rt. 1106 (T15N R13W S2), 1; spring, Ramsey Rd. at Forest Rt. 1106 (T15N R13W S2), 1; N Sylamore Creek, 1 mi E Blanchard Springs (T15N R11W S4), 20; Blanchard Springs (T15N R11W S5), MSUMZ A-1114, 1; Mill Creek below dam, Blanchard Springs (T15N R11W S5), 9; Roasting Spring (T16N R11W S4), 11; Big Spring, adjacent to Sylamore Exp. Station (T16N R11W S16), 3; Hidden Spring, ½ mi N Sylamore Exp. Station (T16N R11W S20), 2; Tarwater Spring (T16N R11W S23), 4; spring, ½ mi N Forest Rt. 1101 at 1102 (T16N R12W S1), 6; spring near Barkshed (T16N R12W S15), 1; spring box, Gunner Pool (T16N R12W S25), MSUMZ A-1117, A-1158, A-1410-12, A-1593-95, 10; 1 mi W Gunner Pool (T16N R12W S26), 5; Hambies Spring, 4 mi S Calico Rock (T17N R11W S28), 2; spring, 3 mi S Calico Rock (T17N

R11W S28), 2.

Scaphiopus holbrooki hurteri Strecker, Western Spadefoot - **Stone Co.:** 2 mi S Calico Rock (T17N R11W S28), 12.

Gastrophryne carolinensis carolinensis (Holbrook), Eastern Narrow-Mouthed Toad - **Stone Co.:** pond, ¾ mi E Optimus (T16N R10W S8), 7; 4 mi S Calico Rock (T17N R11W S33), ASU-503, 1.

Bufo woodhousei fowleri Hinckley, Fowler's Toad - **Baxter Co.:** Sneeds Creek at Forest Rt. 1105 (T17N R12W S4), 2; Lone Rock Spring (T18N R13W S22), 1; Martin Spring (T18N R13W S24), 1. **Stone Co.:** N Sylamore Creek at Barkshed (T16N R12W S15), 3; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R12W S25), 3; Gunner Pool (T16N R12W S25), MSUMZ A-1623, A-1632-33, 3.

Bufo americanus americanus Holbrook, American Toad - **Baxter Co.:** Forest Rt. 1101 2½ mi E Forest Rt. 1100 (T17N R12W S18), 1; Lone Rock Spring (T18N R13W S22), 1. **Stone Co.:** Roasting Spring (T16N R11W S4), 3; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R12W S25), 1; Blanchard Springs (T15N R11W S5), 1; Partee Spring (T16N R11W S26), 1; Ark. Hwy. 14 at Livingston Creek (T16N R11W S35), 1; pond, 2 mi N Fifty Six (T16N R12W S35), 1; 4 mi S Calico Rock (T17N R11W S28), 1.

Hyla versicolor versicolor LeConte, Eastern Gray Treefrog - **Baxter Co.:** pond, ½ mi S Forest Rt. 1106 at Ark. Hwy. 14 (T16N R13W S27), 1. **Stone Co.:** pond, ¾ mi E Optimus (T16N R10W S8), 10; pond, 2 mi N Fifty Six (T16N R12W S35), 4; Partee Spring (T16N R11W S26), 1.

Hyla crucifer crucifer Weid, Northern Spring Peeper - **Baxter Co.:** pond, ½ mi S Forest Rt. 1106 at Ark. Hwy. 14 (T16N R13W S27), 5; **Stone Co.:** pond, 2 mi N Fifty Six (T16N R12W S35), 1.

Pseudacris triseriata feriarum (Baird), Upland Chorus Frog - **Stone Co.:** Blanchard Springs (T15N R11W S5), ASU-746, 1.

Acris crepitans blanchardi Harper, Blanchard's Cricket Frog - **Baxter Co.:** pond, ½ mi S Forest Rt. 1106 at Ark. Hwy. 14 (T16N R13W S27), 1; Sneeds Creek at Forest Rt. 1105 (T17N R12W S3), 3; Lone Rock Spring (T18N R13W S22), 4; Martin Spring (T18N R13W S24), 1. **Marion Co.:** Buffalo River, 4 mi SW Advance (T17N R14W S2), 1; Middle Creek, ½ mi SE Buffalo River (T17N R14W S2), 1. **Searcy Co.:** Spring Creek, 4 mi NNW Big Flat (T16N R14W S11), 1. **Stone Co.:** Roasting Ear Creek at Forest Rt. 1106 (T15N R13W S2), 1; N Sylamore Creek, ½ mi N Blanchard Spring (T15N R11W S5), 1; Blanchard Springs (T15N R11W S5), MSUMZ A-1479-80, 2; Clark Spring (T15N R12W S8), 1; Mill Creek below Clark Spring (T15N R12W S8), 1; convergence of N and S Sylamore Creeks (T15N R11W S12), 3; Roasting Spring (T16N R11W S4), 3; Big Spring (T16N R11W S16), 1; Tarwater Spring (T16N R11W S23), MSUMZ A-1605-06, 2; Partee Spring (T16N R11W S26), 1; Livingston Creek at Ark. Hwy. 5 (T16N R11W S26), 1; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R12W S25), 1; Gunner Pool (T16N R12W S25), MSUMZ A-1337-41, A-1604, 6; 1 mi W Gunner Pool

(T16N R12W S26), 2; Harkelroad's Lake, 2 mi NW Fifty Six (T16N R12W S34), 1; 4 mi S Calico Rock (T17N R11W S28), 5.

Rana pipiens spheocephala Cope, Southern Leopard Frog - **Baxter Co.:** pond, ½ mi S Forest Rt. 1106 at Ark. Hwy. 14 (T16N R13W S27), 1; Sneeds Creek at Forest Rt. 1105 (T17N R12W S4), 1; spring, Cataract Creek at Forest Rt. 1105 (T17N R12W S23), 1; Tassel Spring (T17N R13W S33), 1; Lone Rock Spring (T18N R13W S22), 2; Martin Spring (T18N R13W S24), 1. **Stone Co.:** Mill Creek below dam, Blanchard Springs (T15N R11W S5), 2; Clark Spring (T15N R12W S8), 1; S Prong Roasting Ear Creek at Forest Rt. 1106 (T15N R13W S2), 1; Livingston Creek at Forest Rt. 1139 (T16N R11W S21), 1; Roaring Spring (T16N R11W S4), 1; Partee Spring (T16N R11W S26), 1; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R12W S25), 2; Gunner Pool (T16N R12W S25), MSUMZ A-749, A-765, A-779, 3; 1 mi W Gunner Pool (T16N R12W S26), 1; pond, 2 mi N Fifty Six (T16N R12W S35), 1; 4 mi S Calico Rock (T17N R11W S28), 1.

Rana sylvatica sylvatica LeConte, Eastern Wood Frog. - **Stone Co.:** Partee Spring (T16N R11W S26), 2; Old Chimney, 2 mi N Fifty Six (T16N R12W S25), 1.

Rana catesbeiana Shaw, Bullfrog - **Baxter Co.:** pond, ½ mi S Forest Rt. 1106 at Ark. Hwy. 14 (T16N R13W S27), 3; Sneeds Creek at Forest Rt. 1105 (T17N R12W S4), 3. **Stone Co.:** N Sylamore Creek, ½ mi N Blanchard Springs (T15N R11W S5), 1; Mirror Lake, Blanchard Springs (T15N R11W S5), MSUMZ A-1453, A-1484, 2; White River, 1½ mi N Allison (T15N R11W S12), 2; Clark Spring (T15N R12W S7), 1; Roasting Ear Creek at Forest Rt. 1106 (T15N R13W S2), 6; Livingston Creek at Forest Rt. 1139 (T16N R11W S21), 1; Partee Spring (T16N R11W S26), 1; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R12W S25), 2; Gunner Pool (T16N R12W S25), MSUMZ A-686, A-699-701, A-729, A-1558-59, A-1578, 8; 1½ mi W Gunner Pool (T16N R12W S26), 2; pond, 2 mi N Fifty Six (T16N R12W S35), 1.

Rana clamitans melanota (Rafinesque), Green Frog - **Baxter Co.:** Lone Rock Spring (T18N R13W S22), 1; Cantrill Spring, Advance (T18N R13W S32), 1. **Stone Co.:** natural entrance Blanchard Springs Caverns (T15N R11W S5), 1; Mirror Lake, Blanchard Springs (T15N R11W S5), MSUMZ A-1613, 1; Clark Spring (T15N R12W S8), 1; Partee Spring (T16N R11W S26), 1; Gunner Pool (T16N R12W S25), MSUMZ A-1577, 1; Bontreger's Spring, 3 mi NW Optimus (T17N R11W S33), 1.

Chelydra serpentina (Linnaeus), Snapping Turtle - **Stone Co.:** Forest Rt. 1106 at S Prong Roasting Ear Creek (T15N R13W S2), 1; Gunner Pool (T16N R12W S25), MSUMZ R-874, 2.

Terrapene carolina triunguis (Agassiz), Three-Toed Box Turtle **Baxter Co.:** Forest Rt. 1100, 1 mi N Ark. Hwy. 14 (T16N R13W S15), 1 Twin Creek, 2 mi SE Advance (T17N R13W S2), 1; ½ mi NE Advance (T18N R13W S32), 1. **Stone Co.:** Forest Rt. 1113, 1 mi NW Ark. Hwy. 5 (T15N R11W S2), 1; 2 mi NW Allison (T15N R11W S10), 2; 3 mi SE Blanchard Springs (T15N R11W S11), 2; Forest Rt. 1102,

7 mi N Fifty Six (T16N R12W S12), 1; 1 mi S Calico Rock (T17N R11W S15), 1.

Graptemys geographica (Le Sueur), Map Turtle - **Stone Co.:** White River, ½ mi N Allison (T15N R11W S10), 2; N Sylamore Creek, 2 mi SE Gunner Pool (T16N R11W S31), 1; Ark. Hwy. 5 at Livingston Creek (T16N R11W S35), 2.

Trionyx spinifer spinifer (Le Sueur), Eastern Spiny Softshell - **Stone Co.:** Gunner Pool (T16N R12W S25), 1.

Crotaphytus collaris collaris (Say), Eastern Collared Lizard - **Stone Co.:** City Rock Bluff (T17N R11W S19), 1; 5 mi S Calico Rock by White River (T17N R11W S35), ASU 63, ASU 93-94, ASU 500-502, 6.

Sceloporus undulatus hyacinthinus (Green), Northern Fence Lizard. **Baxter Co.:** Forest Rt. 1101, 3 mi E Forest Rt. 1100 (T17N R12W S20), 2; Lone Rock (T18N R13W S22), 2; Martin Spring (T18N R13W S13), 2; ½ mi NW Advance (T18N R13W S32), 1. **Marion Co.:** Forest Rt. 1111 at Middle Creek (T17N R14W S25), 2. **Stone Co.:** Blanchard Springs (T15N R11W S5), MSUMZ R-756-757, 3; Clark Spring (T15N R12W S8), 2; Roaring Spring (T16N R11W S4), 1; 10 mi NE Fifty Six (T16N R11W S8), 1; Barkeded (T16N R12W S15), 1; Gunner Pool (T16N R12W S25), MSUMZ R-725, 1; ½ mi SE Gunner Pool (T16N R12W S25), 2; 4 mi S Calico Rock (T17N R11W S28), 1.

Cnemidophorus sexlineatus sexlineatus (Linnaeus), Six-Lined Racerunner - **Stone Co.:** Slick Rock Hollow, ¼ mi S Forest Rt. 1113 (T15N R11W S2), 2; Gunner Pool (T16N R12W S25), 1.

Scincella laterale (Say), Ground Skink - **Baxter Co.:** Forest Rt. 1101, 1½ mi E Forest Rt. 1100 (T17N R12W S20), 1. **Stone Co.:** Slick Rock Hollow, ¼ mi S Forest Rt. 1113 (T15N R11W S2), 1; Blanchard Springs (T15N R11W S5), 2; 3 mi SE Blanchard Springs (T15N R11W S11), 1; Clark Spring (T15N R12W S8), 1; Roaring Spring (T16N R11W S4), 2; Big Spring (T16N R11W S16), 1; 2 mi W Gunner Pool (T16N R12W S27), 2; Gunner Pool (T16N R12W S25), MSUMZ R-993, 1; 4 mi S Calico Rock (T17N R11W S28), 1; Push Mountain (T17N R13W S32), 1.

Eumeces fasciatus (Linnaeus), Five-Lined Skink - **Baxter Co.:** Lone Rock (T18N R13W S22), 3. **Stone Co.:** Blanchard Springs (T15N R11W S5), 1; Roaring Spring (T16N R11W S4), 4; Gunner Pool (T16N R12W S25), MSUMZ R-729, 1; N Sylamore Creek, ¼ mi SE Gunner Pool (T16N R12W S25), 1; Gunner Creek, ¼ mi W Gunner Pool (T16N R12W S26), 1.

Eumeces anthracinus pluvialis Cope, Southern Coal Skink - **Stone Co.:** Roaring Spring (T16N R11W S4), 1; N Sylamore Creek, ¼ mi SE Gunner Pool (T16N R12W S25), 1.

Natrix sipedon pleuralis Cope, Midland Water Snake - **Baxter Co.:** 3 mi E Optimus (T16N R10W S8), 1; Forest Rt. 1106, ½ mi S Ark. Hwy. 14 (T16N R13W S27), 1. **Stone Co.:** Blanchard Springs (T15N R11W S5), MSUMZ R-753, 1; Mirror Lake (T15N R11W S5), 1; N Sylamore

Herpetofauna of Sylamore Ranger District: Preliminary Report

- Creek, ½ mi NW Blanchard Springs (T15N R11W S5), 1; N Sylamore Creek, 1 mi SE Gunner Pool (T16N R11W S30), 2; N Sylamore Creek, ½ mi N Barkshed (T16N R12W S15), 1; Barkshed (T16N R12W S15), 1; Gunner Creek, ½ mi W Gunner Pool (T16N R12W S25), 2; 1½ mi NW Fifty Six (T16N R12W S34), 1.
- Storeria dekayi wrightorum* Trapido, Midland Brown Snake - **Stone Co.:** 1 mi SE Gunner Pool (T16N R12W S25), 1.
- Storeria occipitomaculata occipitomaculata* (Storer), Northern Red-Bellied Snake - **Stone Co.:** Blanchard Springs Caverns (T15N R11W S5), 1; N Sylamore Creek, ½ mi SE Gunner Pool (T16N R12W S25), 1; 2 mi N Fifty Six (T16N R12W S35), MSUMZ R-846, 1.
- Thamnophis sirtalis sirtalis* (Linnaeus), Eastern Garter Snake - **Baxter Co.:** Forest Rt. 1106, ½ mi S Ark. Hwy. 14 (T16N R13W S27), 1. **Stone Co.:** Blanchard Springs (T15N R11W S5), MSUMZ R-760, 1; Forest Rt. 1110, 1½ mi N Ark. Hwy. 14 (T15N R11W S6), 8; N Sylamore Creek, 3 mi SE Blanchard Springs (T15N R11W S11), 1; Roaring Spring (T16N R11W S4), 1.
- Virginia striatula* (Linnaeus), Rough Earth Snake - **Baxter Co.:** Forest Rt. 1105 at Sneed's Creek (T17N R12W S4), 1. **Stone Co.:** Roaring Spring (T16N R11W S4), 3; Gunner Pool (T16N R12W S25), MSUMZ R-720, 1; 4 mi S Calico Rock (T17N R11W S33), ASU 97, ASU 801, 2.
- Virginia valeriae elegans* Kennicott, Western Earth Snake - **Stone Co.:** Roaring Spring (T16N R11W S4), 1; 4 mi S Calico Rock (T17N R11W S33), ASU 798-800, 3.
- Heterodon platyrhinos* Latreille, Eastern Hognose Snake - **Stone Co.:** N Sylamore Creek, ½ mi SE Gunner Pool (T16N R12W S25), 1; Gunner Pool (T16N R12W S25), MSUMZ R-741, 1.
- Diadophis punctatus arnyi* Kennicott, Prairie Ringneck Snake - **Baxter Co.:** Tassel Spring (T17N R13W S33), 1. **Stone Co.:** Blanchard Springs (T15N R11W S5), 1; Clark Spring (T15N R12W S8), 1; Forest Rt. 1113, 3 mi NE Allison (T16N R11W S34), 1; Gunner Pool (T16N R12W S5), 2; N Sylamore Creek, ½ mi SE Gunner Pool (T16N R12W S25), 1.
- Carphophis vermis* (Kennicott), Western Worm Snake - **Baxter Co.:** Forest Rt. 1105 at Sneed's Creek (T17N R12W S4), 1. **Stone Co.:** Big Spring (T16N R11W S16), 1.
- Coluber constrictor priapus* Dunn and Wood, Southern Black Racer - **Baxter Co.:** Forest Rt. 1105 at Sneed's Creek (T17N R12W S4), 1. **Stone Co.:** Roaring Spring (T16N R11W S4), 1; Ark. Hwy. 14, 4 mi NW Fifty Six (T16N R12W S29), 1.
- Masticophis flagellum flagellum* (Shaw), Eastern Coachwhip - **Baxter Co.:** Ark. Hwy. 14, 2½ mi E Big Flat (T16N R13W S22), 1. **Stone Co.:** N Sylamore Creek, ½ mi SE Gunner Pool (T16N R12W S25), 1.
- Ophedrys aestivus* (Linnaeus), Rough Green Snake - **Stone Co.:** N Sylamore Creek ½ mi SE Gunner Pool (T16N R12W S25), 1.
- Elaphe obsoleta obsoleta* (Say), Black Rat Snake - **Stone Co.:** Gunner Pool (T16N R12W S25), 2; Forest Rt. 1102, 7 mi N Fifty Six (T16N R12W S12), 1.
- Lampropeltis getulus holbrooki* Stejneger, Speckled Kingsnake - **Baxter Co.:** Forest Rt. 1111 at Middle Creek (T17N R14W S25), 1. **Stone Co.:** Gunner Pool (T16N R12W S25), 2.
- Tantilla gracilis hallowelli* Cope, Northern Flat-Headed Snake - **Searcy Co.:** Forest Rt. 1111 at Spring Creek (T16N R14W S11), 1.
- Agkistrodon contortrix contortrix* (Linnaeus), Southern Copperhead - **Baxter Co.:** Forest Rt. 1106, ½ mi S Ark. Hwy. 14 (T16N R13W S27), 1. **Stone Co.:** Ark. Hwy. 14, 2 mi NW Allison (T15N R11W S10), 1; 3 mi SE Blanchard Springs (T15N R11W S11), 1; Ark. Hwy. 5, ½ mi N Allison (T15N R11W S12), 1; Blanchard Springs (T15N R11W S5), ASU 248, ASU 577, 2; Big Spring (T16N R11W S16), 1; 5 mi N Fifty Six (T16N R12W S13), ASU 390, 1; ½ mi SE Gunner Pool (T16N R12W S25), 2; Ark. Hwy. 14, 5 mi NW Fifty Six (T16N R12W S30), 1.
- Agkistrodon piscivorus leucostoma* (Troost), Western Cottonmouth - **Stone Co.:** 5 mi E Fifty Six (T15N R11W S11), ASU 202, 1; Partee Spring (T16N R11W S26), 2; ¾ mi SE Gunner Pool (T16N R12W S25), 2; Gunner Pool (T16N R12W S25), MSUMZ R-736-37, 3; ¾ mi SE Gunner Pool (T16N R12W S25), 1; ¼ mi NW Gunner Pool (T16N R12W S26), 1.
- Sistrurus miliarius streckeri* Gloyd, Western Pigmy Rattlesnake - **Stone Co.:** Forest Rt. 1113, 1¼ mi NW Barkshed Campground (T16N R12W S17), 1.
- Crotalus horridus horridus* Linnaeus, Timber Rattlesnake - **Baxter Co.:** Forest Rt. 1107, 4 mi E Forest Rt. 1100 (T17N R12W S21), 1. **Stone Co.:** Tassel Spring (T17N R13W S33), 1; ½ mi SE Gunner Pool (T16N R12W S25), 1.

ACKNOWLEDGEMENTS

Our sincere appreciation is extended to the various personnel of the U.S. Forest Service, Ozark National Forest, who assisted in many ways, Dr. Max A. Nickerson for his many helpful suggestions and aid in the identification of salamander larvae, and Mr. Mitch Rogers, District Game Biologist, Arkansas Game and Fish Commission, for his assistance in locating unmapped springs and caves in the study area.

The study was supported by the U.S. Forest Service, Ozark National Forest, and in part by a grant from the Memphis State University Faculty Research Fund.

LITERATURE CITED

- BISHOP, S.C. 1943. Handbook of salamanders. Comstock Pub. Co., Ithaca, New York. 555 p.
- BLACK, J. D., and S. C. DELLINGER. 1938. Herpetology of Arkansas, pt. 2. The amphibians. Occ. Papers Univ. Arkansas Mus. (2). 30 p.

- CARR, A. 1952. Handbook of turtles. Comstock Pub. Assoc., Ithaca, New York. 542 p.
- CONANT, R. (Chairman). 1956. Common names for North American amphibians and reptiles. *Copeia* 1956:172-185.
- CONANT, R. 1958. A field guide to the reptiles and amphibians of the United States and Canada east of the 100th meridian. Houghton Mifflin Co., Boston. 366 p.
- DELLINGER, S. C., and J. D. BLACK. 1938. Herpetology of Arkansas, pt. 1. The reptiles. *Occ. Papers Univ. Arkansas Mus.* (1). 47 p.
- DOWLING, H. G. 1956. Geographic relations of Ozarkian amphibians and reptiles. *SW Naturalist* 1:174-186.
- DOWLING, H. G. 1957. A review of the amphibians and reptiles of Arkansas. *Occ. Papers Univ. Arkansas Mus.* (3). 50 p.
- HERPETOLOGICAL INFORMATION SEARCH SYSTEMS. 1970. Catalogue of American amphibians and reptiles working list of species in the continental United States and Canada. *Am. Mus. Natur. Hist.*, New York. 12 p.
- HURTER, J., and J. K. STRECKER, JR. 1909. The amphibians and reptiles of Arkansas. *Acad. Sci. St. Louis Trans.* 18:1-27.
- KLAUBER, L. M. 1956. Rattlesnakes, V. I. Univ. California Press, Berkeley and Los Angeles. 708 p.
- SCHMIDT, K. P. 1953. A check list of North American amphibians and reptiles. *Am. Soc. Ichthyol. Herpetol.* 280 p.
- SCHWARDT, H. H. 1938. Reptiles of Arkansas. *Arkansas Agr. Exp. Sta. Bull.* 357. 47 p.
- SMITH, H. M. 1946. Handbook of lizards of the United States and Canada. Comstock Pub. Co., Ithaca, New York. 557 p.
- STEBBINS, R. C. 1966. A field guide to western reptiles and amphibians. Houghton Mifflin Co., Boston. 279 p.
- STONE, W. 1904. A collection of reptiles and salamanders from Arkansas, Indian Territory, and western Texas. *Acad. Natur. Sci. Philadelphia Proc.* 55:538-558.
- TAYLOR, E. H. 1935. Arkansas amphibians and reptiles in the Kansas University Museum. *Univ. Kansas Sci. Bull.* 22:207-218.
- WRIGHT, A. H., and A. A. WRIGHT. 1949. Handbook of frogs and toads of the United States and Canada. Comstock Pub. Co., Ithaca, New York. 640 p.
- WRIGHT, A. H., and A. A. WRIGHT. 1957. Handbook of snakes of the United States and Canada. Comstock Pub. Assoc., Ithaca, New York. 2 vol.